

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/08 H04L1/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04B H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 0 851 605 A (MATSUSHITA ELECTRIC IND CO LTD) 1 July 1998 (1998-07-01) page 5, line 10 - line 50; figures 1,2A-2F ----- -/--	1,3, 5-10,13 2,11,12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

18 November 2004

Date of mailing of the international search report

25/11/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Sieben, S

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	OKADA M ET AL: "ARRAY ANTENNA ASSISTED ADAPTIVE MODULATION IN A FAST FADING CHANNEL" VTC 2001 SPRING. IEEE VTS 53RD. VEHICULAR TECHNOLOGY CONFERENCE. RHODES, GREECE, MAY 6 - 9, 2001, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, NY : IEEE, US, vol. VOL. 2 OF 4. CONF. 53, 6 May 2001 (2001-05-06), pages 1249-1253, XP001067162 ISBN: 0-7803-6728-6	2,11
A	section II figures 1,5	1,3-10, 12-17
X	----- EP 0 767 554 A (BECKER GMBH) 9 April 1997 (1997-04-09)	17
Y	column 1, line 3 - line 21 column 5, line 4 - line 33; figure 1	12
X	----- US 3 737 783 A (OSWALD J ET AL) 5 June 1973 (1973-06-05) column 1, line 61 - column 2, line 20; figure 1	1,3, 5-10,13
X	----- EP 0 718 986 A (ALCATEL MOBILE COMM DEUTSCH) 26 June 1996 (1996-06-26)	17
A	column 1, line 30 - line 56 column 2, line 28 - line 33; figure 1 column 3, line 36 - line 54; figure 2 -----	1-16

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0851605	A	01-07-1998	JP 10190538 A	21-07-1998
			CN 1190827 A ,B	19-08-1998
			DE 69730939 D1	04-11-2004
			EP 0851605 A2	01-07-1998
			US 6044254 A	28-03-2000
EP 0767554	A	09-04-1997	DE 19533268 A1	13-03-1997
			AT 254818 T	15-12-2003
			DE 59610825 D1	24-12-2003
			EP 0767554 A2	09-04-1997
US 3737783	A	05-06-1973	FR 2087370 A5	31-12-1971
			BE 766448 A1	29-10-1971
			DE 2123826 A1	23-12-1971
			GB 1327834 A	22-08-1973
			NL 7106635 A	17-11-1971
EP 0718986	A	26-06-1996	DE 4445850 A1	27-06-1996
			AU 702748 B2	04-03-1999
			AU 4041595 A	27-06-1996
			EP 0718986 A2	26-06-1996
			FI 956185 A	23-06-1996